



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,418	06/30/2003	Dennis R. McKean	HSJ9-2003-0022US1	1933
23980	7590	11/17/2006		
MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C				
1400 PAGE MILL ROAD				
PALO ALTO, CA 94304-1124				
			EXAMINER	
			SCHATZ, CHRISTOPHER	
			ART UNIT	PAPER NUMBER
			1733	

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/611,418

Applicant(s)

MCKEAN ET AL.

Examiner

Christopher T. Schatz

Art Unit

1733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) 1-21 and 30 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 22-29 and 31-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## FINAL REJECTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 22-29 and 32-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Kurdi et al.

Claims 22-29 are rejected for the same reasons as set forth in section 2 of the office action dated March 23, 2006. As to claim 32, Kurdi et al. discloses a method wherein the solid encapsulant is mechanically stable during thermal cycling. As to claim 33, Kurdi et al. discloses a method wherein the encapsulant comprises in situ polymerization of organosilicon prepolymers. As to claim 34, Kurdi et al. discloses a method wherein the readily debondable solid encapsulant consists essentially of an oxygen containing silicon-based organic polymer.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 1733

4. Claims 22-29 and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurdi et al. '113 in view of Hussinger '430.

Claims 22-29 are rejected for the same reasons as set forth in section 4 of the office action dated March 23, 2006. Kurdi meets the limitations of the new claims as discussed above.

### *Response to Arguments*

Applicant's arguments filed August 29, 2006 have been fully considered but they are not persuasive. Applicant states that the acrylate-based encapsulates of Kurdi are not readily debondable. Examiner acknowledges applicant's discussion of Kurdi in paragraph 0007 of the specification. However, the discussion is limited only to acrylates and does not consider if the silicone used in Kurdi is debondable or not. It is the position of the examiner that because the silicone material used by Kurdi is the same material discussed by applicant, the material is necessarily debondable.

As to claim 32, Kurdi meets the limitation because the reference discloses heating of the encapsulant while the encapsulant remains "stable." Examiner asserts that the term "stable" is relative and because the encapsulant of Kurdi et al. does not break down during heating examiner asserts that the material is "stable." As to claim 33, Kurdi discloses examiner asserts that material is polymerized during curing of the encapsulant and because the material is polymerized silicone the presence of organosilicon pre-polymers are necessarily required. As to claim 34, silicone is an oxygen containing silicon polymer with carbon substitutes and thus the reference meets the claim limitation. Applicant is respectfully notified that "essentially" is considered a relative term and its presence in the claim does not overcome the Kurdi reference.

Art Unit: 1733

As to the 35 U.S.C. 103(a) rejection, examiner asserts that Hussinger need not disclose silicon based polymers. Kurdi discloses silicon based polymer encapsulants, and based on the disclosure of Hussinger that debondable encapsulants are known and advantageous, one of ordinary skill in the art would have readily understood to use a silicon based debondable encapsulant in the method of Kurdi.

### *Conclusion*

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher T. Schatz whose telephone number is 571-272-1456. The examiner can normally be reached on 8:00-5:30, Monday -Friday.

Art Unit: 1733

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 571-272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Christopher T. Schatz



**RICHARD CRISPINO**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700